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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/814,777	03/30/2004	Yenamandra Venkateswarlu	03108/0201123-US0 4938	
7278 DARBY & DA	7590 06/11/2007 RBY P.C.	EXAMINER		
P.O. BOX 770			DESAI, RITA J	
Church Street S New York, NY			ART UNIT	PAPER NUMBER
			1625	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/814,777	VENKATESWARLU ET AL.			
Office Action Summary	Examiner	Art Unit			
	Rita J. Desai	1625			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address					
Period for Reply	VIC CET TO EXPIRE AMONTH	(E) OR THIRTY (20) DAYS			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period v  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir vill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 3/27/	<u>′07</u> .				
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-47 is/are pending in the application.					
4a) Of the above claim(s) 3-10,15-19 and 24-47 is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,2,11-14 and 20-23</u> is/are rejected.	,				
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9) ☐ The specification is objected to by the Examine	ır.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
<ul> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>					
application from the International Bureau	·	ed in this National Stage			
* See the attached detailed Office action for a list of the certified copies not received.					
·		·			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail D				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal F				
Paper No(s)/Mail Date	6) 🔲 Other:				

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## **DETAILED ACTION**

Claims pending 1-47.

The rejection of claims 1,4-14, 24,37 under 35 USC 112 second para has been withdrawn.

Upon further review the examiner is re restricting the claims to the same groups as given before.

Only group I is being examined, and as claims in group I are not found to be allowable the groups process of making and method of using are not being rejoined.

The rejection of claims 14-19,38-47 under 35 USC 112 written description is hence moot as the restriction is not withdrawn and claims are not rejoined.

New grounds of Rejection:-

## Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1,2, 11-14, 20-23 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for compounds 2-20 extracted from ascidium, does not reasonably provide enablement for all the various analogs, tautomers, solvates, prodrugs stereoisomers and so on made. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make the invention commensurate in scope with these claims.

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Applicants have amended the claims to include prodrugs, analogs, stereo isomers, anhydrides, tautomers, solvates—and so on. These compounds are also no longer isolated from Ascidiam Synoicum macroglossum. Which analogs and prodrugs are included. The analogs may not have the same activity. It is not clear what these are as there are no examples or any guidance as to which compounds are included and "prodrugs" is described as a compound which dissociates in vivo into the compound of the formula. The meets and bounds of this is described by a function. It can include a plethora of compounds. The functional language recited without any correlation "analogs, prodrugs, stereoisomers, tautomers, solvates group "as one of ordinary skill in the art could not recognize or understand the structure from the mere recitation of the function. Claims employing functional language at the point of novelty, such as applicants', neither provide those elements required to practice the inventions, nor "inform the public" during the life of the patent of the limits of the monopoly asserted. The expression could encompass myriad of compounds and applicants claimed expression represents only an invitation to experiment regarding possible compounds.

The compounds are no longer isolated from ascidian.

Also there are no starting material described.

The availability of the starting material that is needed to prepare the invention as claimed is at issue here.. As per MPEP 2164.01 (b):

A key issue that can arise when determining whether the specification is enabling is whether the starting materials or apparatus necessary to make the invention are available. In the biotechnical

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area, this is often true when the product or process requires a particular strain of microorganism and when the microorganism is available only after extensive screening. The Court in In re Ghiron, 442 F.2d 985, 991,169 USPQ 723, 727 (CCPA 1971), made clear that if the practice of a method requires a particular apparatus, the application must provide a sufficient disclosure of the apparatus if the apparatus is not readily available. The same can be said if certain chemicals are required to make a compound or practice a chemical process. In re Howarth, 654 F.2d 103, 105, 210 USPQ 689, 691 (CCPA 1981).

- 1) The breadth of the claims: The instant claims encompass many compounds with the meeds and bounds unclear.
- 2)The nature of the invention: The invention is a (highly) substituted compound that is useful in he pharmaceutical.
- 3) The state of the prior art: The state of the prior art is that it involves screening in vitro and invivo to determine which compounds exhibit the desired pharmacological activities. There is no absolute predictability and no established correlation between in vitro activity and the treatment of diseases as the in vitro data is not a reliable predictor of success even in view of the seemingly high level of skill in the art. The existence of these obstacles establishes that the contemporary knowledge in the art would prevent one of ordinary skill in the art from accepting any therapeutic regimen on its face.
- 4) The level of one of ordinary skill: The ordinary artisan is highly skilled.
- 5) The level of predictability in the art: It is noted that the pharmaceutical art is unpredictable, requiring each embodiment to be individually assessed for physiological activity. In re Fisher, 427 F. 2d 833, 166 USPQ 18(CCPA 1970) indicates that the more unpredictable an area is, the more specific enablement is necessary in order to satisfy the statue. The level of unpredictability is in the art is very high. There is very little know about prodrugs, solvates analogs, tautomers, stereoisomers. With so many variables and definitions who's meets and bounds is unclear and described by functional language The compounds which differ by a methyl group also show different properties, for e.g. theophylline and caffeine. One of them is a bronchodilator and they differ only by a methyl group.
- 6) The amount of direction provided by the inventor: The inventor provides no direction in the instant specification. There are no examples drawn to the prodrugs, solvates, tautomers, analogs, sterioisomers groups

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7) The existence of working examples: The instant specification does not have any working examples.

8) The quantity of experimentation needed to make or use the invention based on the content of the disclosure: Since there are no working examples, the amount of experimentation is very high and burdensome.

Taking the above eight factors into consideration, it is not seen where the instant specification enables the ordinary artisan to make and/or use the instantly claimed invention.

Genetech Inc Vs Nova Nordisk 42 USPQ 2d 1001.

"A patent is not a hunting license. It is not a reward for search but compensation for its successful conclusion and patent protection is granted in return for an enabling disclosure of an invention, not for vague intimations of general ideas that may or may not be workable."

MPEP 2164.01(a) states, "A conclusion of lack of enablement means that, based on the evidence regarding each of the above factors, the specification, at the time the application was flied, would not have taught one skilled in the art how to make and/or use the full scope of the claimed invention without undue experimentation. In re Wright, 999 F.2d 1557,1562, 27 USPQ2d 1510, 1513 (Fed. Cir. 1993)." That conclusion is clearly justified here. Thus, undue experimentation will be required to practice Applicants' invention.

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## Conclusion

Claims 1,2, 11-14, 20-23 are rejected.

Claims 3-10,15-19,24-47 are withdrawn.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita J. Desai whose telephone number is 571-272-0684. The examiner can normally be reached on Monday - Friday, flex time..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas McKenzie can be reached on 571-272-0670. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Rita J. Desai
Primary Examiner
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R.D. June 6, 2007